

ANNUAL COMPLIANCE REPORT OF MISSOURI PUBLIC WATER SYSTEMS



Hoot Owl Point Subdivision Water Treatment Plant



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

2016

Table of Contents

Report Summary from the Branch Chief	2
What is a Public Water System	3
The Missouri Public Water System Universe	3
Analysis of Compliance	4
Consumer Confidence Reports	5
Compliance Activities: Preserving the Quality of Drinking Water	6
For More Information	6
Summary of Violations Table	7
Organic Contaminants	9
Disinfection Byproducts Rule	10
Inorganic Contaminants	11
Radiologicals	11
Surface Water Treatment Rule	11
Microbiologicals	12
Lead and Copper Rule	12
Public Notification	13
Ground Water Rule	13
Appendix A: Health Based Compliance	14
I. Total Coliform Rule	14
A. Acute MCL Violations and Boil Order Map	14
B. Non-Acute MCL Violations	16
II. Revised Total Coliform Rule - Level 1 and Level 2 Assessment Count ..	17
III. Chemical MCL Violations	19
IV. Radiological MCL Violations	21
V. Surface Water Violations	21
Appendix B: Chronic Major Monitoring Violators	22
Appendix C: Major Repeat Monitoring Violators	23



Report Summary from the Branch Chief

Missouri is blessed with an abundance of high-quality water supplied by its many underground aquifers and major river networks. These sources provide Missourians with water not only for drinking but for a myriad of household, agricultural, industrial and other purposes. It is critical that water provided to the public be safe and abundant.

In Missouri, the Missouri Department of Natural Resources' Public Drinking Water Branch has the responsibility for implementing the Safe Drinking Water Act and ensuring that the state's 2,720 public water systems provide safe drinking water. To do this, the department sets limits and monitors for 91 different chemical and microbiological contaminants that could be found in public water supplies. This report provides information on how well Missouri's public water systems are doing in meeting these standards.

This report is the 21st Annual Compliance Report produced by the department. It contains compliance statistics for Missouri's public water systems for calendar year 2016. The department prepares this report not only to comply with statutory obligations mandated by the federal Safe Drinking Water Act, but also to focus attention and provide an understanding of the importance of quality drinking water to the public. This report is provided to the U.S. Environmental Protection Agency for inclusion in a national report that summarizes the performance of the nation's public drinking water systems. The report shows Missouri's water systems continued to provide safe and reliable drinking water, but also shows there are still remaining challenges to overcome.

In Missouri, the Revised Total Coliform Rule monitoring and implementation requirements generate the most violations. This reflects the relatively high frequency of monitoring (monthly) and the vulnerability of water systems to bacteriological contamination, as well as the fact that it is a rule that applies to every public water system. The Ground Water Rule implementation is closely aligned with the Revised Total Coliform Rule and compliance with it can also be a challenge as Missouri has a large number of very small public water systems that use well water as their source.

A significant number of systems are also experiencing difficulty complying with Disinfection Byproduct (DBP) Rule requirements. More stringent requirements under the Stage 2 Disinfection Byproduct Rule were phased in based on a system's population, starting in 2012. The Stage 2 DBP Rule also requires secondary water systems to meet the disinfection byproduct standards and all systems are now required to comply with the rule regardless of population. Since water age can exacerbate disinfection byproduct levels, there can be significant compliance hurdles for some secondary water systems to overcome.

Compliance with the annual Consumer Confidence Report requirements continues to be a challenge. The department assists the community water systems with this workload by hosting the reports on the department's website, which has dramatically helped reduce the cost to systems of meeting this requirement and has improved compliance.

Implementation of the Long Term 2 Surface Water Treatment Rule (LT2) has resulted in the need for systems to provide additional treatment. In recently completed second round of source water monitoring for cryptosporidium (crypto) by the 10 largest surface water treatment plants, three additional plants detected crypto at sufficient levels to have to install additional treatment. With the second and final round of source water monitoring complete, seven plants will have to or have already upgraded their treatment to protect against crypto.

And finally, the Lead and Copper Rule continues to receive national attention. The branch continues to put a lot of effort into ensuring system compliance with the Lead and Copper Rule through ongoing monitoring, education and technical assistance. In general, Missouri's large water systems have lime softening plants that add calcium and produce stable water and our groundwater systems that rely on wells to supply the water draw from aquifers that normally produce very hard water that is not corrosive and is unlikely to leach lead from the distribution system.

Going forward, we know there are still several challenges ahead in getting every system into compliance with all applicable standards. However, we will continue to work with Missouri's water systems to help them to address their compliance issues so that they can continue to provide Missouri's citizens with access to safe and reliable drinking water.

I hope you find this report informative and useful.

A handwritten signature in black ink that reads "David J. Lamb".

David J. Lamb, Chief
Public Drinking Water Branch
Missouri Department of Natural Resources

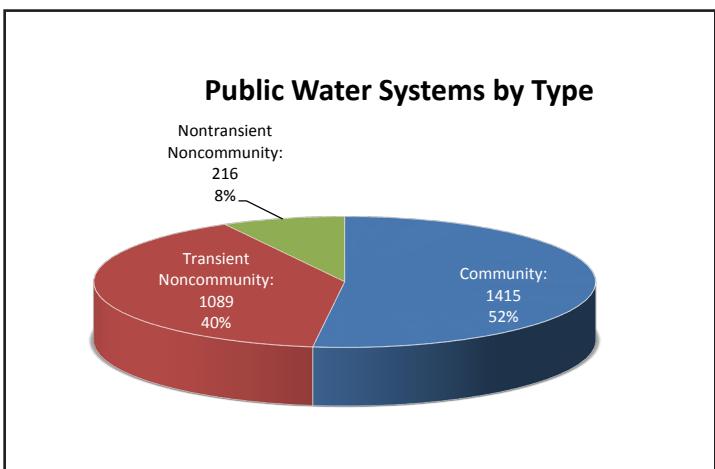
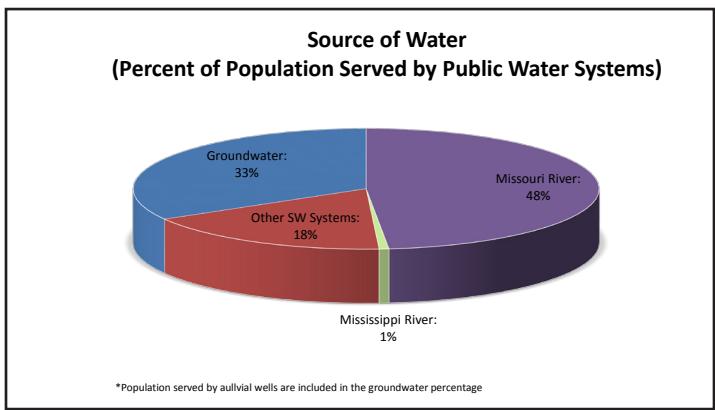
What is a Public Water System?

A public water system is defined as a system that provides water through piping or other constructed conveyances for human consumption to at least 15 service connections, or serves an average of at least 25 people for at least 60 days each year. These are the systems that are the focus of this report.

There are three types of public water systems:

1. Community systems include towns, water districts, subdivisions, mobile home parks and residential facilities such as nursing homes or prisons.
2. Nontransient noncommunity systems regularly serve at least 25 of the same people during six months per year; schools and factories are good examples.
3. Transient noncommunity systems serve different people daily, such as restaurants, resorts and campgrounds. These smaller systems are typically in rural areas where it is not feasible to hook up to a city or water district.

Requirements for construction, operation, monitoring, etc., vary among systems based on their type, size and source of water. Water testing at systems that are not public water systems (for example, homes served by private wells) is facilitated by local and county sanitarians and the Missouri Department of Health and Senior Services, rather than the Missouri Department of Natural Resources.



The Missouri Public Water System Universe

In 2016, there were 2,720 active public water systems in Missouri. Of this total, 1,415 were community, 216 were nontransient noncommunity, and 1,089 were transient noncommunity systems.

The community water systems in Missouri served more than 5 million citizens in 2016. These citizens benefit from one of Missouri's most outstanding resources: its water. There is generally a large quantity of high-quality water in Missouri.

By far the largest source of drinking water for Missourians is surface water from the Missouri River. The abundant supply of water in the Missouri River and its proximity to the state's major population centers make the use of this river as a source so popular.

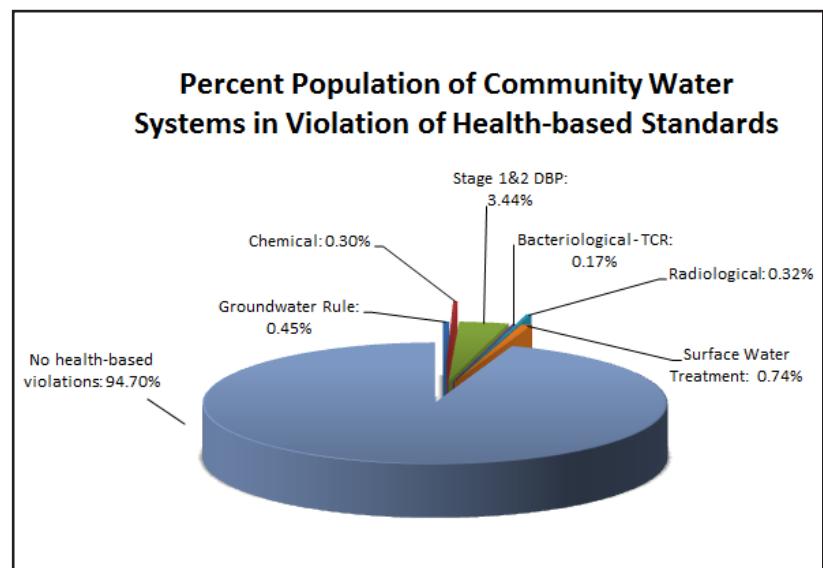
Groundwater is the next most used source of drinking water for Missouri's community supplies. In southern Missouri, good quality groundwater is easy to obtain and typically requires very little treatment to be used for drinking water. Some groundwater systems have the best of both worlds and use alluvial wells in valleys of the Missouri and Mississippi river systems where they can get large volumes of water free of surface contaminants. Wells in the Missouri River alluvium provide groundwater to a significant population. More than half the state's population gets their drinking water from the Missouri River or its alluvial wells. The importance of this resource cannot be overstated.

Analysis of Compliance

Missouri expects a lot from its public water systems and requires testing for 91 different regulated chemicals and microbiological contaminants on a regular schedule. A system is to be applauded for performing all required testing and meeting all Maximum Contaminant Level (MCLs), and treatment technique standards. When violations do occur, that often is the first identification of a problem and can be the first step toward correcting it. Many public water systems perform testing beyond what is required by the state.

The Summary of Violations table in this report counts individual violations. Each public water system has the potential to accumulate multiple violations during the year because there are multiple regulations involved and some monitoring is on a monthly schedule. For example, the monitoring requirements for the Total Coliform Rule alone create a potential for more than 30,000 violations. This puts some perspective on the violation figures shown in the Summary of Violations table and the information in the appendices. Another factor to consider is the number of systems that have violations. Many of the violations are from water systems with problems that result in multiple violations during the year. Other systems may only have one or two violations.

Appendices A through C list specific systems by county. The department uses various methods to focus on the water systems that need attention. The department used a process for many years developed by the Environmental Protection Agency (EPA) to identify significant noncompliers. State regulators were critical of this process because it weighted monitoring and reporting violations as much as health-based violations. As a result, EPA developed a new enforcement response policy that focuses on health-based violations. This new policy includes an enforcement targeting tool that tracks systems with the highest levels of noncompliance. The new policy and tool identify priority systems for enforcement response, define timely and appropriate enforcement responses and clarify what constitutes a formal action.



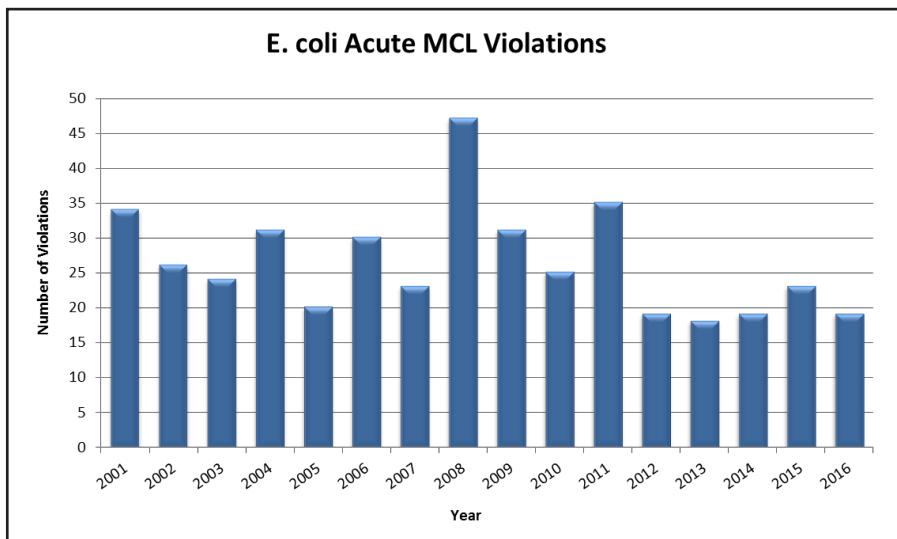
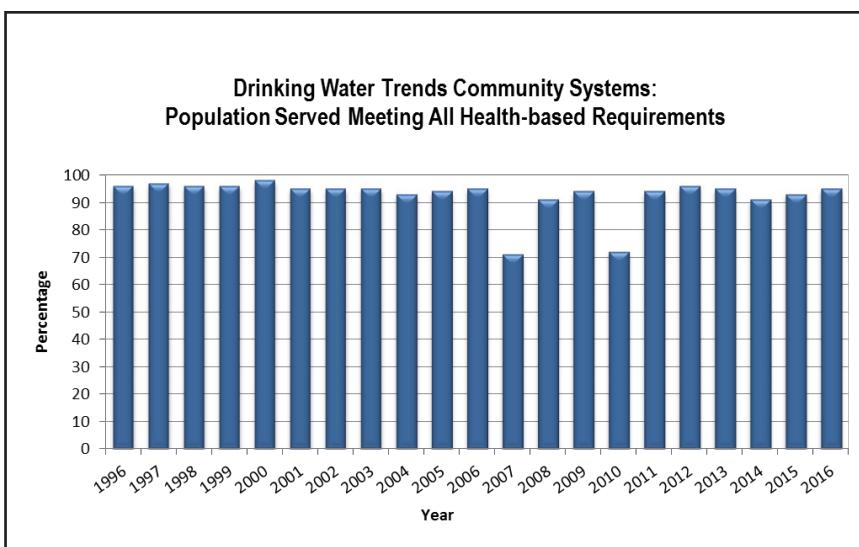
MCL and treatment technique violations represent the most significant impact on public health. These occurred at a small number of public water systems serving approximately 5.3 percent of the population. Since 1996, when the first Annual Compliance Report was produced, through 2003, Missouri has consistently met or exceeded EPA's target of serving water that meets all health-based standards to 95 percent of the population. Again in 2006, Missouri community water systems met EPA's target. The small dip below the 95 percent target in 2004 and 2005 did not represent a reduction in water quality, but is a result of more stringent drinking water standards. In 2007, this compliance measure dropped significantly because Missouri's largest water system had a treatment technique violation. The same phenomenon happened again in 2010. Even though these events were of short duration, the entire population had to be counted in this statistic. For more information on this item, refer to the 2008 Annual Compliance Report.

EPA and the states have worked together to develop an additional compliance measure called "person-months during which community water systems provide water that meets health-based standards." This measure is intended to take into account situations where violations are of short duration. Missouri achieved 95.31 percent compliance with this measure in 2016. The national target for federal fiscal year 2016 was 95 percent.

The majority of MCL and monitoring violations in 2016 were for failure to meet the requirements of

the Total Coliform Rule and the Revised Total Coliform Rule. Total coliform bacteria serve as an indicator that disease-causing organisms may be present. All public water systems in the state must test for this type of bacteria every month they dispense water to the public. Monitoring violations are by far the most common violation for this rule. The department is particularly concerned when monitoring violations occur at public water systems that have a history of bacteriological contamination. Adequate testing is the only way to know for sure if the problems have been corrected or have reoccurred.

In 2016, 17 public water systems, 0.7 percent, had acute violations for E. coli.



Another way to look at the number of acute MCL violations is to compare the number that actually occurred to the number possible. Since bacteriological testing is required monthly, the 2,720 water systems had more than 30,000 chances to get an E. coli MCL violation. The 19 that actually occurred represent less than 1 percent of the number possible. While these acute violations can be serious, they are rare.

Consumer Confidence Reports

Some people may be more vulnerable to waterborne illness than the general population. To educate the public on this issue, community water systems include a warning in their annual Consumer Confidence Reports (CCR) stating that some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections.

CCRs provide detailed information for individual community water systems, while this report does not. Community water systems must distribute the CCR annually to water customers detailing specific information about their water system. This includes information about the source(s) and the levels of contaminants in the drinking water. Usually, these contaminants pose no health threat or are below the MCL and are not violations. The CCR must list violations of state and federal requirements for the calendar year. The department prepares a draft CCR for water systems to review and utilize and posts this on its server at dnr.mo.gov/CCR/index.html along with additional information regarding CCRs. The department also hosts the final CCR version and

provides a unique URL web address for water customers to access the report for each system. As a result of these efforts, CCR compliance rates increased over the previous year. In 2016, 94.6 percent of Missouri's community water systems distributed their Consumer Confidence Reports properly.

Anyone can request a copy of their CCR from their public water system or by calling the department's Public Drinking Water Branch at 800-361-4827 or 573-751-5331.

Compliance Activities: Preserving the Quality of Drinking Water

The department works closely with violators to return them to compliance in a timely manner. This includes phone contacts, on-site inspections, meetings with owners or operators and technical assistance as needed. For more serious violations, a bilateral compliance agreement between the water system owner and the department may be the tool used to return the system back into compliance. Bilateral compliance agreements are voluntary written agreements negotiated between the system owner and department's regional office. This process allows the department to determine the improvements the water system needs to make without either party having to endure the time and cost of formal litigation. If a water system owner or operator violates a bilateral compliance agreement or a drinking water law or regulation, the department may take additional enforcement actions, such as issuing an administrative order.

Public Drinking Water Branch staff work in conjunction with other agencies to protect public health. By serving on a committee with staff from the Missouri Department of Health and Senior Services, the two agencies identify ways to support and benefit each other's activities. One of those areas is enforcement activity against facilities, such as restaurants, that are regulated by both agencies.

The department provides training and technical assistance in an effort to prevent the occurrence of violations. Training is routinely provided to operators and owners of public water systems around the state, primarily concentrating on the basic principles of running a water system, performing the required monitoring and preventing contamination of the system. Technical assistance in the form of phone contacts and on-site visits is also available to help water system operators avoid or correct problems. Staff in the department's regional and satellite offices carry out most of these activities.

For most violations, public water systems are required to notify the consumers they serve. The department provides all public water systems with the necessary forms and information to effectively notify the public. The method of notification varies by the violation and system type. Systems must report back to the department how the public notice was performed. Some violations, such as the confirmed detection of E. coli, warrant immediate action due to the threat to public health. For such acute violations, the department requires systems to notify customers within 24 hours to boil water before consumption. Boil water orders remain in effect until the problem has been corrected and the water is safe to consume.

For More Information

Information about Missouri's public water systems can be obtained by writing to the Missouri Department of Natural Resources, Public Drinking Water Branch, PO Box 176, Jefferson City, MO 65102-0176 or calling 800-361-4827 or 573-751-5331.

Information is also available on the department's website at dnr.mo.gov/env/wpp/dw-index.html.

Summary of Violations Table

The following definitions apply to the Summary of Violations table.

Filtered Systems: Water systems that have installed filtration treatment [10 CSR 60-4.050].

Inorganic Contaminants: Non-carbon-based compounds such as metals, nitrates and asbestos. These contaminants are naturally-occurring in some water, but can get into water through farming, chemical manufacturing and other human activities [10 CSR 60-4.030].

Lead and Copper Rule: Lead and copper corrosion pose various health risks when ingested at any level, and can enter drinking water from household pipes and plumbing fixtures [10 CSR 60, Chapter 15]. Violations are reported for: failure to monitor; failure to install optimal corrosion control treatment or a source water treatment system that would reduce lead and copper levels in water at the tap; failure to replace lead service lines on the schedule required by the regulation; and failure to provide required public education about reducing or avoiding lead intake from drinking water.

Organic Contaminants: Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from cropland or discharge from factories [10CSR 60-4.040 and 4.100].

Radionuclides: Radioactive particles that can occur naturally in water or result from human activity. Safe drinking water regulations set MCLs on five types of radionuclides: radium-226, radium-228, uranium, gross alpha and beta particle/photon radioactivity [10 CSR 60-4.060].

Surface Water Treatment Rule: This includes a series of rules promulgated from 1989-2009 that establish criteria under which water systems supplied by surface water sources, or groundwater sources under the direct influence of surface water, must filter and disinfect their water (Surface Water Treatment Rule, Interim Enhanced Surface Water Treatment Rule, Long Term 1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule) [10 CSR 60-4.050 and 60-4.052].

Violations of the surface water treatment rules are reported for the following categories:

- **Monitoring, routine/repeat (for filtered systems):** Failure to carry out required tests or to report the results of those tests. A major monitoring violation for the surface water treatment rule occurs when at least 90 percent of the required samples are not taken or results are not reported during the compliance period.
- **Treatment techniques (for filtered systems):** Failure to properly treat the water.
- **Total Coliform Rule (TCR) and Revised Total Coliform Rule (RTCR):** The TCR and RTCR, establishes regulations for microbiological contaminants in drinking water. These contaminants can cause a short-term health problem. If no samples are collected during the one-month compliance period, a major monitoring violation occurs. States report four categories of violations to EPA:
 1. **Acute MCL violation:** A violation where the system found E. coli, potentially harmful bacteria, in its water.
 2. **Non-acute MCL violation:** A violation where the system found total coliform in samples of its water at a frequency or at a level that violates the rule. For systems collecting fewer than 40 samples per month, more than one positive sample for total coliform is a violation. For systems collecting 40 or more samples per month, more than five percent of the samples positive for total coliform is a violation.
 3. **Major routine and follow-up monitoring:** A violation where a system did not perform any monitoring.
 4. **Sanitary Survey:** A major monitoring violation if a system fails to collect five routine monthly samples if sanitary survey is not performed.

Maximum Contaminant Level: The highest amount of a contaminant allowed in drinking water. MCLs ensure drinking water does not pose a health risk. MCLs are defined in milligrams per liter (parts per million) unless otherwise specified.

Monitoring: The department specifies which water testing methods the water systems must use and sets schedules for the frequency of testing. A water system that does not follow the department's schedule or methodology is in violation [10 CSR 60-4.010]. States must report monitoring violations that are significant as determined by the EPA Administrator, in consultation with the department. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period.

Ground Water Rule: Applies to public water systems that serve groundwater. It ensures monitoring of groundwater sources for E. coli contamination, and relies on four strategies to address this risk: periodic sanitary surveys, triggered source water monitoring in the case of a positive sample, corrective action for a system found to have a significant deficiency or source water E. coli contamination, and compliance monitoring to ensure the treatment technology is reliable.

Treatment Techniques: A water disinfection process that EPA requires instead of a MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

Violation: A failure to meet any state or federal drinking water regulation.



Organic Contaminants: Jan. 1, 2016 - Dec. 31, 2016

		MCL		Treatment Technique		Significant	
	MCL ¹ (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Organic Contaminants		*					
1,1,1-Trichloroethane	0.2					12	12
1,1,2-Trichloroethane	0.005					12	12
1,1-Dichloroethylene	0.007					12	12
1,2,4-Trichlorobenzene	0.07					12	12
1,2-DBCP	0.0002						
1,2-Dichloroethane	0.005					12	12
1,2-Dichloropropane	0.005					12	12
2,3,7,8-TCDD (Dioxin)	3x10-8						
2,4,5-TP	0.05						
2,4-D	0.07						
Acrylamide							
Alachlor	0.002						
Aldicarb	0.003						
Aldicarb Sulfone	0.002						
Aldicarb Sufoxide	0.004						
Atrazine	0.003						
Benzene	0.005					12	12
Benzo[a]pyrene	0.0002						
BHC Gamma	0.0002						
Carbofuran	0.04						
Carbon tetrachloride	0.005					12	12
Chlorobenzene	0.1					12	12
Chlordane	0.002						
cis-1,2-Dichloroethylene	0.07					12	12
Dalapon	0.2						
Di(2-ethylhexyl)adipate	0.4						
Di(2-ethylhexyl)phthalate	0.006						
Dichloromethane	0.005					12	12
Dinoseb	0.007						
Diquat	0.02						
Endothall	0.1						
Endrin	0.002						
Epichlorohydrin							
Ethylbenzene	0.7					12	12
Ethylene dibromide	0.00005						
Glyphosate	0.7						
Heptachlor	0.0004						

¹ Values are in milligrams per liter (mg/L), unless otherwise specified.

*Shaded areas indicate a violation is not applicable in this category.

Organic Contaminants: Jan. 1, 2016 - Dec. 31, 2016

	MCL ¹ (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Heptachlor epoxide	0.0002						
Hexachlorobenzene	0.05						
Hexachlorobenzene	0.001						
Hexachlorocyclopentadiene	0.05						
Lasso	0.05						
Lindane	0.0002						
Methoxychlor	0.04						
Monochlorobenzene	0.1						
o-Dichlorobenzene	0.6					12	12
Oxamyl (Vydate)	0.2					12	12
Para-Dichlorobenzene	0.075						
Pentachlorophenol	0.001						
Picloram	0.5						
Simazine	0.004						
Styrene	0.1					12	12
Tetrachloroethylene	0.005					12	12
Toluene	1					12	12
Total PCB	0.0005						
Toxaphene	0.003						
Trans-1,2-Dichloroethylene	0.1					12	12
Trichloroethylene	0.005					12	12
Vinyl chloride	0.002					12	12
Xylenes (total)	10					12	12

¹ Values are in milligrams per liter (mg/L), unless otherwise specified

Disinfection Byproducts Rule: Jan. 1, 2016 - Dec. 31, 2016

	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Total trihalomethanes	0.80	163	71			15	14
Haloacetic acids	0.60	13	7			15	14
Disinfection byproducts		176	72	0	0	15	14
Total Organic Compounds				0	0		
Insufficient or Non-certified Operator				0	0		

Inorganic Contaminants: Jan. 1, 2016 - Dec. 31, 2016

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Inorganic Contaminants							
Antimony	0.006					8	8
Arsenic	0.010	1	1			8	8
Asbestos	7 million fibers/L						
Barium	2					8	8
Beryllium	0.004					8	8
Cadmium	0.005					8	8
Chromium	0.1					8	8
Cyanide (as free cyanide)	0.2					2	2
Fluoride	4.0	4	1			8	8
Mercury	0.002					8	8
Nitrate	10 (as nitrogen)					37	36
Nitrite	1 (as nitrogen)						
Selenium	0.05					8	8
Thallium	0.002	3	1			8	8
Total nitrate and nitrite	10 (as nitrogen)					0	0

Radiological Contaminants: Jan. 1, 2016 - Dec. 31, 2016

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL ¹ (pCi/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Radiological Contaminants							
Gross Alpha	15 pCi/L	15	7			8	5
Radium-226 and radium-228	5 pCi/L	26	8			8	5
Gross beta	4 mrem/yr						
Subtotal		41	10			16	5

Surface Water Treatment Rule: Jan. 1, 2016 - Dec. 31, 2016

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	Number of Violations	No. of Systems with Violation
Surface Water Treatment							
Filtered systems							
Monitoring, routine/repeat						3	2
Treatment techniques				19	5		
Unfiltered systems							
Monitoring, routine/repeat							
Failure to filter							
Subtotal				19	5	3	2

Microbiological Contaminants: Jan. 1, 2016 - Dec. 31, 2016

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL Presence/ Absence	No. of Violations	No. of Systems with Violations	Number of Violations	No. of Systems with Violations	Number of Violations	No. of Systems with Violations
Total Coliform Rule (In effect 1/1/2016-3/31/2016)							
Acute MCL violation	Presence	4	4				
Non-acute MCL violation	Presence	47	38				
Major routine and follow up						117	97
Sanitary survey ³							
Subtotal ⁴		47	38			117	97
Revised Total Coliform Rule (In effect 4/1/2016-12/31/2016)							
Acute MCL violation	Presence	15	14				
Level 1 Assessment Violation				10	10		
Level 2 Assessment Violation				0	0		
Treatment Technique, Other				0	0		
Major Routine						463	292
Reporting/Notification						2	2
Subtotal		15	14	10	10	465	293

¹ Values are in Picocuries per liter (pCi/L), unless otherwise specified.

² Some systems may have violations in multiple categories.

³ Number of violations for failure to perform sanitary survey under the Total Coliform Rule.

⁴ All Systems with an acute MCL violation also had a non-acute monthly MCL violation for the same month.

Lead and Copper Rule: Jan. 1, 2016 - Dec. 31, 2016

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Lead and Copper Rule ¹							
Initial lead and copper tap monitoring and reporting						1	1
Follow-up or routine lead and copper tap monitoring and reporting						14	14
Treatment installation							
Public education						18	18
Subtotal						33	33

¹ Includes any system not up to date on lead and copper monitoring. Not comparable with Annual Compliance Report figures from 2016

Public Notification: Jan. 1, 2016 - Dec. 31, 2016

	MCL	MCL		Treatment Techniques		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Public Notification						441	232
Consumer Confidence Reports ¹						76	76
Subtotal						517	259

¹ Violations for failure to produce and distribute the 2015 Consumer Confidence Report in 2016

Ground Water Rule: Jan. 1, 2016 - Dec. 31, 2016

	MCL	MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation	No. of Violations	No. of Systems with Violation
Groundwater Rule							
Failure to treat				10	7		
Failure to address contamination				0	0		
Failure to address deficiency				24	24		
Public Notice						5	2
Sanitary Survey						18	18
Major routine and follow up monitoring						91	56
Subtotal				34	31	114	74



Appendix A: Health Based Compliance

I. Total Coliform Rule

A. Acute MCL Violations

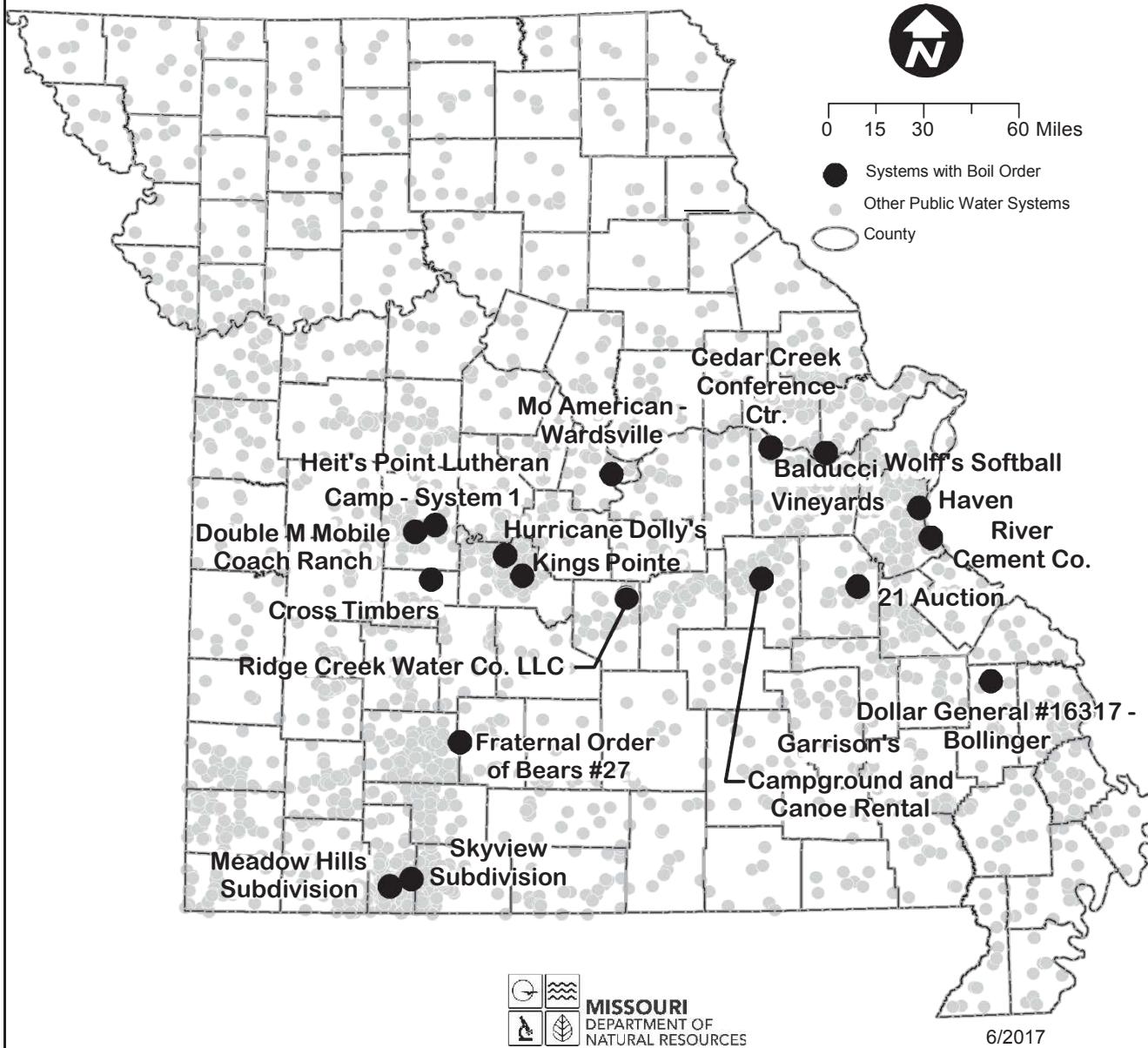
The following systems were under boil water orders due to acute MCL violations for fecal coliform or E. coli bacteria for the months listed. These acute violations also violate the standard for total coliform bacteria.

County	ID#	System Name	Month(s)	Issue Date	Rescind Date
BENTON	MO3048043	DOUBLE M MOBILE COACH RANCH	July	7/21/2016	9/6/2016
BENTON	MO3048043	DOUBLE M MOBILE COACH RANCH	December	12/29/2016	1/3/2017
BENTON	MO3242078	HEITS POINT LUTHERAN CAMP SYSTEM 1	January	2/10/2016	3/18/2016
BENTON	MO3242078	HEITS POINT LUTHERAN CAMP SYSTEM 1	April	5/6/2016	5/25/2016
BOLLINGER	MO4283197	DOLLAR GENERAL 16317 BOLLINGER	May	5/18/2016	7/1/2016
CAMDEN	MO3218012	HURRICANE DOLLYS	June	7/7/2016	7/18/2016
CAMDEN	MO5193158	KINGS POINTE	July	7/28/2016	9/23/2016
COLE	MO3010831	MO AMERICAN - WARDSVILLE	May	5/12/2016	5/18/2016
CRAWFORD	MO3241036	GARRISONS CAMPGROUND AND CANOE RENTAL	May	5/21/2016	5/27/2016
FRANKLIN	MO6192601	CEDAR CREEK CONFERENCE CENTER	June	6/8/2016	6/15/2016
HICKORY	MO5010197	CROSS TIMBERS	August	8/19/2016	9/2/2016
JEFFERSON	MO6180934	RIVER CEMENT COMPANY	August	8/18/2016	9/14/2016
JEFFERSON	MO6203139	WOLFFS SOFTBALL HAVEN	June	6/18/2015	Ongoing
PULASKI	MO4031631	RIDGE CREEK WATER COMPANY LLC	January	1/21/2016	2/8/2016
ST CHARLES	MO6213173	BALDUCCI VINEYARDS	August	9/8/2016	9/19/2016
STONE	MO5031142	MEADOW HILLS SUBDIVISION	October	10/24/2016	11/4/2016
STONE	MO5031613	SKYVIEW SUBDIVISION	March	4/10/2013	8/8/2016
WASHINGTON	MO4283192	21 AUCTION	June	6/29/2016	8/29/2016
WEBSTER	MO5213087	FRATERNAL ORDER OF BEARS # 27	June	7/13/2015	4/5/2016

Note: If no "Rescind Date", the boil order was still in effect at time of printing.

2016 Boil Water Orders

Issued due to acute MCL violations for the Total Coliform Rule and the Surface Water Treatment Rule



For current boil water orders, check the department's web page at
dnr.mo.gov/env/wpp/boil/index.html

Appendix A: Health Based Compliance

I. Total Coliform Rule

B. Non-Acute MCL Violations

The following systems had two or more samples test positive for total coliform bacteria in the months indicated.

The positive samples were then tested for fecal coliform or E. coli and were found to be negative.

County	ID#	System Name	Month(s)
BARRY	MO5203145	FOX FITNESS 24	January, February
	MO5212841	FRATERNAL ORDER OF EAGLE 4155	March
BENTON	MO3242078	HEITS POINT LUTHERAN CAMP SYSTEM 1	January
BOONE	MO3036153	KUHLE H2O	January
CAMDEN	MO3212427	LAKE BREEZE TERRACE	February
CAMDEN	MO5293009	THOMSONS COUNTRY STORE	January, February
CEDAR	MO5036164	STOCKTON HILLS WATER CO	February
	MO5282846	AMERICAN VETERANS POST 116	March
CHRISTIAN	MO5036305	PIPPINVILLE & OAK PARK OWNERS ASSN	January, February
DOUGLAS	MO5171804	MT ZION BIBLE SCHOOL	January
GASCONADE	MO3031167	BLACK FOREST HOA INC NO 2	March
GREENE	MO5271587	TEMPLE ISRAEL	January
HICKORY	MO5218044	POMME DE TERRES SHADOW LAKE GOLF COURSE	January, February
HOWELL	MO4171176	SOUTH FORK ELEM SCHOOL	March
JASPER	MO5010004	ALBA	March
	MO5180607	DYNO NOBEL	January
JEFFERSON	MO6036042	FICKEN HILL SUBD	March
LINCOLN	MO6240045	CAMP TUCKAHOO	March
	MO6273193	CHRIST CENTERED CHURCH	March
MARIES	MO3180610	KINGSFORD MANUFACTURING CO	February
MILLER	MO3212296	TOOTERS SALOON & STEAKHOUSE	February
MORGAN	MO5031482	THE VILLAS OF HARBOUR HILLS	January, February, March
PULASKI	MO3024490	PULASKI CO PWSD 1	January
PULASKI	MO4031631	RIDGE CREEK WATER COMPANY LLC	January, February
SCOTT	MO4010971	HAYWOOD CITY	January
	MO4031614	NEW HAMBURG - CENTRAL	January
ST CHARLES	MO6282901	CHANDLER HILL VINEYARD	February
ST CHARLES	MO6283166	MONTELLE WINERY	January, February
STONE	MO5010192	CRANE	March
	MO5031613	SKYVIEW SUBDIVISION	March
STONE	MO5043117	WARRENS OAKLAND PARK	January
TANEY	MO5031621	GREEN ACRES HOMEOWNERS ASSOC	January
	MO5036117	MOORE BEND WATER UTILITY, LLC	February
WEBSTER	MO5242466	TRI LAKES MOOSE LODGE	March
	MO5292575	RAPID ROBERTS 121	March
	MO5208114	WILD ANIMAL SAFARI INC	January, February
WEBSTER	MO5213087	FRATERNAL ORDER OF BEARS # 27	January
	MO5258117	EAGLE STOP	January

Appendix A: Health Based Compliance

II. Revised Total Coliform Rule - Level 1 and Level 2 Assessment Count

Since the transition to the Revised Total Coliform Rule April 1, 2016, the following systems have exceeded the coliform treatment technique trigger - triggering an assessment on more than one occasion in 2016. These assessments are triggered for the following reasons: systems collecting forty (40) or more samples per month exceeding 5.0% total-coliform positive samples for the month, systems collecting fewer than forty (40) samples per month having two (2) or more coliform-positive samples for the month, failing to collect every required repeat sample after any coliform-positive sample, or incurring an E coli MCL violation.

County	ID#	System Name	Assessments
BARRY	MO5010730	SELIGMAN	2
BENTON	MO3048043	DOUBLE M MOBILE COACH RANCH	3
BUTLER	MO4024071	BUTLER CO PWSD 2	2
CAMDEN	MO5303169	ROANDA BEACH CONDOS	2
CAPE	MO4079503	MID AMERICA TEEN CHALLENGE	3
CEDAR	MO5172802	AGAPE BOARDING SCHOOL	2
CRAWFORD	MO6010200	CUBA	2
DADE	MO5245232	EVENING STAR CAMPGROUND	2
DOUGLAS	MO5212925	HITCHING POST BAR & GRILL	2
FRANKLIN	MO6024211	FRANKLIN CO PWSD 1	2
FRANKLIN	MO6036085	SYLVAN MANOR SUBD	2
FRANKLIN	MO6192601	CEDAR CREEK CONFERENCE CENTER	2
FRANKLIN	MO6241626	CAMP MO VAL CAMP TAMBO	2
GASCONADE	MO6010360	HERMANN	2
GREENE	MO5010032	ASH GROVE	2
GREENE	MO5024231	GREENE CO PWSD 6	2
GREENE	MO5258076	BOLTONS GENERAL STORE	2
HICKORY	MO5010197	CROSS TIMBERS	2
LINCOLN	MO6240045	CAMP TUCKAHOO	3
LINCOLN	MO6273193	CHRIST CENTERED CHURCH	2
MARIES	MO3242408	TURKEY HILL RANCH BIBLE CAMP	2
MILLER	MO3010240	ELDON	2
MORGAN	MO3031358	MORGAN CO PWSD # 2	3
MORGAN	MO5301457	MILLSTONE LUXURY CONDOMINIUMS	2
NEWTON	MO5010267	FAIRVIEW	2
NEWTON	MO5241734	KOA CAMPGROUND	2
PETTIS	MO3036065	SOUTHERN HILLS WATER CO	2
POLK	MO5031408	BOLIVAR SOUTHTOWN UTILITIES COMPANY INC	2
POLK	MO5036140	PRAIRIE HEIGHTS SUBD	2
PULASKI	MO3024491	PULASKI CO PWSD 2	2
ST CHARLES	MO6073165	WENTZVILLE VFW POST #5327	2
ST CHARLES	MO6213173	BALDUCCI VINEYARDS	2
STONE	MO5283073	KIMBERLING BOULEVARD	2
TANEY	MO5242466	TRI LAKES MOOSE LODGE	3
TANEY	MO5243160	BEAVER CREEK CANOE RENTAL, CAMPGROUND	2

Appendix A: Health Based Compliance

II. Revised Total Coliform Rule - Level 1 and Level 2 Assessment Count

Since the transition to the Revised Total Coliform Rule April 1, 2016, the following systems have exceeded the coliform treatment technique trigger - triggering an assessment on more than one occasion in 2016. These assessments are triggered for the following reasons: systems collecting forty (40) or more samples per month exceeding 5.0% total-coliform positive samples for the month, systems collecting fewer than forty (40) samples per month having two (2) or more coliform-positive samples for the month, failing to collect every required repeat sample after any coliform-positive sample, or incurring an E coli MCL violation.

County	ID#	System Name	Assessments
TANEY	MO5273121	LIFE CHRISTIAN CENTER	2
TANEY	MO5292355	WHITE OAK STATION # 21	2
WARREN	MO6010505	MARTHASVILLE	2
WASHINGTON	MO4201034	FOURCHE VALLEY GOLF CLUB	2
WASHINGTON	MO6010659	POTOSI	4
WEBSTER	MO5010734	SEYMOUR	2

Appendix A: Health Based Compliance

III. Chemical MCL Violations

County	ID#	System Name	Chemical
ANDREW	MO1010277	FILLMORE	TOTAL TRIHALOMETHANE (TTHM)
	MO1010757	ROSENDALE	TOTAL TRIHALOMETHANE (TTHM)
	MO1024006	ANDREW CO PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
	MO1024007	ANDREW CO PWSD 4	TOTAL TRIHALOMETHANE (TTHM)
BARTON	MO5010446	LAMAR	TOTAL TRIHALOMETHANE (TTHM)
BATES	MO1010698	ROCKVILLE	TOTAL TRIHALOMETHANE (TTHM)
	MO1021160	BATES CO PWSD 7	TOTAL HALOACETIC ACIDS (HAA5)
	MO1021160	BATES CO PWSD 7	TOTAL TRIHALOMETHANE (TTHM)
	MO1024034	BATES CO PWSD 5	TOTAL TRIHALOMETHANE (TTHM)
BUTLER	MO1024035	BATES CO PWSD 6	TOTAL TRIHALOMETHANE (TTHM)
	MO4010656	POPLAR BLUFF	TOTAL HALOACETIC ACIDS (HAA5)
	MO4010656	POPLAR BLUFF	TOTAL TRIHALOMETHANE (TTHM)
	MO1024078	CALDWELL CO PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
CALDWELL	MO1024079	CALDWELL CO PWSD 2	TOTAL HALOACETIC ACIDS (HAA5)
	MO1024079	CALDWELL CO PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
	MO2010215	DEWITT	TOTAL TRIHALOMETHANE (TTHM)
	MO1010024	ARCHIE	TOTAL TRIHALOMETHANE (TTHM)
CARRICK	MO1010301	GARDEN CITY	TOTAL HALOACETIC ACIDS (HAA5)
	MO1010301	GARDEN CITY	TOTAL TRIHALOMETHANE (TTHM)
	MO1010261	EXCELSIOR SPRINGS	TOTAL TRIHALOMETHANE (TTHM)
	MO1010546	MOSBY	TOTAL TRIHALOMETHANE (TTHM)
CARROLL	MO1010748	SMITHVILLE	TOTAL TRIHALOMETHANE (TTHM)
	MO1024143	CLAY CO PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
	MO1010131	CAMERON	TOTAL TRIHALOMETHANE (TTHM)
	MO1024155	CLINTON CO PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
COOPER	MO3010075	BLACKWATER	TOTAL TRIHALOMETHANE (TTHM)
	MO3010089	BOONVILLE	TOTAL TRIHALOMETHANE (TTHM)
	MO3024170	COOPER CO CONS PWSD # 1	TOTAL TRIHALOMETHANE (TTHM)
	MO1010179	COFFEY	TOTAL TRIHALOMETHANE (TTHM)
DAVIESS	MO1010405	JAMESON	TOTAL TRIHALOMETHANE (TTHM)
	MO1021080	DAVIESS CO PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
	DEKALB	MAYSVILLE	TOTAL TRIHALOMETHANE (TTHM)
	DUNKLIN	HORNERSVILLE	ARSENIC
GENTRY	MO1024223	GENTRY CO PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
GRUNDY	MO2010452	LAREDO	TOTAL TRIHALOMETHANE (TTHM)
HARRISON	MO1024241	HARRISON CO PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
HENRY	MO1010076	BLAIRSTOWN	TOTAL TRIHALOMETHANE (TTHM)

Appendix A: Health Based Compliance

III. Chemical MCL Violations

County	ID#	System Name	Chemical
HENRY	MO1010123	CALHOUN	TOTAL TRIHALOMETHANE (TTHM)
	MO1021117	HENRY CO PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
	MO1021175	HENRY CO PWSD 4	TOTAL TRIHALOMETHANE (TTHM)
	MO1024247	HARRY S TRUMAN PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
HOLT	MO1021304	HOLT CO PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
HOWARD	MO2010271	FAYETTE	TOTAL TRIHALOMETHANE (TTHM)
	MO2010566	NEW FRANKLIN	TOTAL TRIHALOMETHANE (TTHM)
IRON	MO4010402	IRONTON	TOTAL TRIHALOMETHANE (TTHM)
JACKSON	MO1010921	UNITY VILLAGE	TOTAL TRIHALOMETHANE (TTHM)
JOHNSON	MO1010371	HOLDEN	TOTAL TRIHALOMETHANE (TTHM)
LACLEDE	MO5010458	LEBANON	THALLIUM, TOTAL
LAFAYETTE	MO1010839	WAVERLY	TOTAL TRIHALOMETHANE (TTHM)
	MO1024326	LAF/JO/SALINE CO CONS PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
LEWIS	MO2010440	LAGRANGE	TOTAL TRIHALOMETHANE (TTHM)
LINCOLN	MO6031217	TIMBER RIDGE ESTATES	FLUORIDE
LINN	MO2010472	LINNEUS	TOTAL TRIHALOMETHANE (TTHM)
MADISON	MO4010290	FREDERICKTOWN	TOTAL HALOACETIC ACIDS (HAA5)
	MO4010290	FREDERICKTOWN	TOTAL TRIHALOMETHANE (TTHM)
MERCER	MO2010515	MERCER	TOTAL TRIHALOMETHANE (TTHM)
NODAWAY	MO1010173	CLEARMONT	TOTAL TRIHALOMETHANE (TTHM)
PERRY	MO4024456	PERRY CO PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
PETTIS	MO3021332	PETTIS/JOHNSON/SALINE PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
PIKE	MO2010479	LOUISIANA	TOTAL TRIHALOMETHANE (TTHM)
PLATTE	MO1010851	WESTON	TOTAL TRIHALOMETHANE (TTHM)
	MO1024477	PLATTE CO PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
	MO1024482	PLATTE CO PWSD 8	TOTAL TRIHALOMETHANE (TTHM)
PUTNAM	MO2010804	UNIONVILLE	TOTAL HALOACETIC ACIDS (HAA5)
	MO2024495	PUTNAM CO PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
	MO2036165	LAKE THUNDERHEAD	TOTAL HALOACETIC ACIDS (HAA5)
	MO2036165	LAKE THUNDERHEAD	TOTAL TRIHALOMETHANE (TTHM)
RANDOLPH	MO2010362	HIGBEE	TOTAL TRIHALOMETHANE (TTHM)
	MO2010533	MOBERLY	TOTAL TRIHALOMETHANE (TTHM)
RAY	MO1010454	LAWSON	TOTAL TRIHALOMETHANE (TTHM)
SALINE	MO2010491	MALTA BEND	TOTAL TRIHALOMETHANE (TTHM)
	MO2010502	MARSHALL	TOTAL TRIHALOMETHANE (TTHM)
	MO2010520	MIAMI	TOTAL TRIHALOMETHANE (TTHM)
	MO2010559	NELSON	TOTAL TRIHALOMETHANE (TTHM)

Appendix A: Health Based Compliance

III. Chemical MCL Violations (continued)

County	ID#	System Name	Chemical
SALINE	MO2010780	SWEET SPRINGS	TOTAL TRIHALOMETHANE (TTHM)
	MO2024555	SALINE CO PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
	MO2024556	SALINE CO PWSD 2	TOTAL TRIHALOMETHANE (TTHM)
	MO2024557	SALINE CO PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
SHELBY	MO2010165	CLARENCE	TOTAL TRIHALOMETHANE (TTHM)
ST CLAIR	MO5010020	APPLETON CITY	TOTAL TRIHALOMETHANE (TTHM)
WORTH	MO1010739	SHERIDAN	TOTAL TRIHALOMETHANE (TTHM)

IV. Radiological MCL Violations

County	ID#	System Name	Chemical
BARRY	MO5010968	CHAIN O LAKES VILLAGE	GROSS ALPHA, EXCL. RADON & U
IRON	MO4010017	ANNAPOLIS	GROSS ALPHA, EXCL. RADON & U
LINCOLN	MO6010902	SILEX	COMBINED RADIUM (-226 & -228)
MCDONALD	MO5010449	LANAGAN	COMBINED RADIUM (-226 & -228)
OZARK	MO5024444	OZARK CO PWSD 1	GROSS ALPHA, EXCL. RADON & U
PERRY	MO4024455	PERRY CO PWSD 1	COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4010087	BONNE TERRE	COMBINED RADIUM (-226 & -228)
	MO4010456	LEADWOOD	GROSS ALPHA, EXCL. RADON & U
	MO4036059	TERRE DU LAC	COMBINED RADIUM (-226 & -228)
TANEY	MO5301550	BRIARWOOD & REDBUD SHORES WATER ASSOC	GROSS ALPHA, EXCL. RADON & U

V. Surface Water Violations

The following systems violated the Surface Water Rule, Treatment Technique for Turbidity or other surface water requirements in the months or annual period indicated.

County	ID#	System Name	Period	Violation
BUTLER	MO4010656	POPLAR BLUFF	January-December	Combined Filter Effluent Turbidity
COOPER	MO3010089	BOONVILLE	October	Combined Filter Effluent Turbidity
DEKALB	MO1010510	MAYSVILLE	February, June, August	Combined Filter Effluent Turbidity
MADISON	MO4010290	FREDERICKTOWN	October-December	Combined Filter Effluent Turbidity
MARION	MO2010344	HANNIBAL	May, October, November	Combined Filter Effluent Turbidity
MONROE	MO2010538	MONROE CITY	February, March, June-August	Combined Filter Effluent Turbidity
PIKE	MO2010479	LOUISIANA	October, November	Combined Filter Effluent Turbidity

APPENDIX B

Chronic Major Monitoring Violations

The following systems had three or more major monitoring violations of the Total Coliform Rule or the Revised Total Coliform Rule in 2016.

County	System Name	PWS ID #	Months
ANDREW	AMAZONIA	MO1010013	March, June, July, August
	BUNGALOW TRAILER PARK	MO1049097	April, May, June
BARRY	FOX FITNESS 24	MO5203145	April, June, July, August, September October, November
	NONNAS NUMMIES	MO5213150	January, April, August, December
BENTON	AMERICAN LEGION POST 217	MO3281109	January, March, April, June, July, August
	HIDDEN VALLEY MHP	MO3262156	January, February, March, April, May, June, July, August, September, October, November, December
	T T CAMPGROUND	MO1242804	January, February, March, April, May, June, July, August, September, October, November, December
BUTLER	STOP & GO	MO4292680	February, March, June, August
	CAMDEN CO PWSD 1	MO3024090	June, October, December
CAMDEN	NIANGUA FALLS	MO3218236	April, May, July, August, September, October
	OSAGE VILLAGE INN	MO3191738	January, June, July, September October, December
CAPE GIRARDEAU	RED FOX BAR & GRILL	MO3212446	January, May, June
	Y ROAD GENERAL STORE	MO3258017	February, July, September
CAPE GIRARDEAU	CLASS ACT FAMILY FITNESS	MO4283006	January, February, March, April, May June, July, August, September
DADE	EVENING STAR CAMPGROUND	MO5245232	June, July, August, September
DENT	LUMBERYARD FAMILY RESTAURANT	MO4213054	May, June, July
JEFFERSON	PRO STOP	MO6292691	March, August, October
LAWRENCE	HUNGRY HOUSE CAFE	MO5212682	February, September, November
LINCOLN	OLNEY TAVERN	MO6210657	February, April, May
MCDONALD	LEGENDS RESTAURANT AND BAR	MO5211235	January, March, May, November
MILLER	BIKINI BAY	MO5213069	July, August, September
MONTGOMERY	CALVARY CHAPEL LAKE OF THE OZARKS	MO5273082	January, June, November, December
	CAMP BAGNELL	MO3241749	April, May, June, July
NEWTON	DANVILLE SINCLAIR	MO3291410	August, November, December
	C MART	MO5292823	June, August, December
PERRY	BILLS PLACE	MO4218555	April, July, September, October
PETTIS	CAMP BRANCH BAPTIST CHURCH	MO1272873	January, April, November
	CRESTVIEW MHP	MO3048254	February, March, April, May, June, July August, September, October, November, December
PHELPS	WOODCREST MHP	MO3048127	January, August, September, October
	PLANTATION ESTATES	MO5030019	January, February, May, June, July, August, September, October, November,
PULASKI	RIDGE CREEK WATER COMPANY LLC	MO4031631	April, May, June, July, August, September, October, November, December
ST CHARLES	CHANDLER HILL VINEYARD	MO6282901	March, September, October, November
ST CLAIR	SCOTTS ICONIUM STORE	MO5258124	April, July, September
	CROSS ROADS STORE	MO5292589	January, February, March, April, May June, July, August, September, October
WASHINGTON	SKYVIEW SUBDIVISION	MO5031613	January, February, April, May, June
	ROGUE CREEK UTILITIES	MO4036318	January, February, July, October
WEBSTER	EAGLE STOP	MO5258117	February, June, December
	XPO LOGISTICS	MO5182621	February, May, November

Appendix C

Major Repeat Monitoring Violations

The following systems had major repeat monitoring violations for the months listed. A major repeat monitoring violation occurs when a routine sample tests positive for total coliform bacteria and that system fails to submit any follow-up, or repeat, samples as required.

County	ID#	System Name	Month(s)
CAMDEN	MO3190694	EL KAY LAKE VIEW MOTEL	January
	MO3212427	LAKE BREEZE TERRACE	January
HICKORY	MO5293126	ALPS GROCERY PITTSBURG	February
PHELPS	MO3048127	WOODCREST MHP	January
ST CHARLES	MO6282901	CHANDLER HILL VINEYARD	March
TANEY	MO5242466	TRI LAKES MOOSE LODGE	January



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